

TITLE OF THE INVENTION

A SPARK PLUG FOR AN ENGINE FOR A COGENERATION SYSTEM

ABSTRACT OF THE DISCLOSURE

In a side ground electrode type of spark plug, sizes of
5 discharge members are optimized to reduce a useless portion in
discharging to improve discharge wear resistance. A first discharge
member mainly comprising Ir alloy is welded to the central electrode.
A second discharge member comprising Ir metal circle plate is
welded to the ground electrode, wherein a side surface of the first
10 discharge member confronts a surface of the second discharge
member to form a spark discharge gap $G \geq 0.2 \text{ mm}$, D (a width of
the first discharge member) $\geq 1.6 \text{ mm}$. $|A - D| \leq (G + 0.5 \text{ mm})$.
 A is a width of the second discharge member. Moreover, $D \leq 5.0$
mm. A maximum cross-sectional area of weld portion between the
15 first discharge member and the central electrode $\leq 8 \text{ mm}^2$. This
weld portion has distance L to the second discharge member. $L \geq$
 G .